## **OBJECT POSITION DETECTOR**

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Inventor:

ALLEN TIMOTHY P (US); GILLESPIE DAVID (US);

MILLER ROBERT J (US); STEINBACH GUNTER (US)

Applicant:

SYNAPTICS INC (US); ALLEN TIMOTHY P (US); GILLESPIE DAVID (US); MILLER ROBERT J (US);

STEINBACH GUNTER (US)

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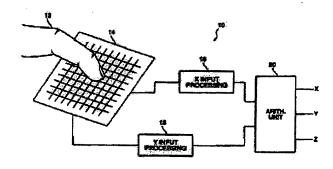
## Cited documents:



US5374787 EP0609021 EP0574213

## Abstract of WO9607981

A proximity sensor system includes a sensor matrix array having a characteristic capacitance on horizontal and vertical conductors connected to sensor pads. The capacitance changes as a function of the proximity of an object or objects to the sensor matrix. The change in capacitance of each node in both the X and Y directions of the matrix due to the approach of an object is converted to a set of voltages in the X and Y directions. These voltages are processed by digital circuitry to develop electrical signals representative of the centroid of the profile of the object, i.e., its position in the X and Y dimensions. Noise reduction and background level setting techniques inherently available in the architecture are employed.



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